16.12 MINIMUM REQUIREMENTS FOR DIGITAL SUBMITTAL

Digital files submitted shall be based on accurate coordinate geometry calculations and registered to the California State Plane Coordinate System (Zone 3), NAD83. The digital file submitted shall be in AutoCAD ".dwg" or ".dxf" (digital exchange format) format and shall be in one (1) drawing file containing all layers, illustrating all existing and proposed improvements within the project area including all existing and proposed offsite improvements, tract boundary, street centerlines, outfall sewers, etc. Descriptive information (i.e. text) may be included in the appropriate layer, or added as a separate layer. Submitted digital files shall be in accordance with these minimum requirements, or as otherwise approved by USD.

All maps, sanitary sewer easements (except those for private sewer or laterals), annexation maps and associated plans and drawings shall be submitted in digital format. Digital submittals shall be submitted with each plan check submittal and any plan or drawing required by the District and shall conform to the following:

File Format:

- AutoCAD (DWG) or
- Digital Exchange Format (DXF)

Media:

- Compact Disk (CD) or
- 3½" high density diskette (PC format), or
- via FTP site

Miscellaneous:

- Each submittal shall be labeled with the project name and/or map number (tract, parcel map, annexation number, etc.), project number, company name, address and phone number.
- All drawings shall use the California State Plane Coordinate System Zone 3 in units of feet. The horizontal datum shall be the North American Datum of 1983 (NAD83) in units of feet and the vertical datum shall be the North American Vertical Datum of 1988 (NAVD88) in units of feet, or other ties as authorized by USD.
- All drawing files shall have a North orientation of vertical (i.e. toward the top of the page).
- All externally referenced drawings used in the drawing shall be bound to the "base" drawing and submitted as one (1) drawing file.
- All files shall be uncompressed. Compressed files are acceptable only when using the WinZip utility or if the appropriate software to uncompress the data is provided.

Layering:

- Layers shall contain, but not be limited to, the layers shown in Exhibit A.
- Layer colors, line types and line weights shall be left to the discretion of the engineer.

AutoCAD Layering ConventionsFor Submission of Developer Projects

Digital files submitted shall be based on accurate coordinate geometry calculations and the NAD83 State Plane Coordinate System (Zone III) and NAVD88. USD prefers that the digital file being submitted combines all elements of individual improvement plan sheets for the proposed subdivision along with the elements of the Parcel or Tract Map into a **single** CAD formatted drawing. This drawing shall contain (but not be limited to) the following layers.

Layer Group	Layer Name	Layer Type	Description
Default	0		AutoCAD default layer
Misc	BORDER		Contains features such as north arrow, vicinity map, location map, title of plans, signature blocks, standard title block,
			scale bar, legend, page borders, etc.etc. Standard construction details of jurisdictional agencies.
Misc Misc	DETAILS TXT	Text	Layer containing general and construction notes, sheet index, special condition notes, becnh mark description, etc.
Landbase	BLDG		Building foot prints
Landbase	BLDG -SETBAK		Building setback line
Landbase	BM	Point	Benchmark
Landbase	BNDRY		Closed polygon of Tract or Parcel Map boundry
Landbase	CL OLD) (T	Line	Centerline - public streets
Landbase Landbase	CLPVT CONTOURS		Centerline - private streets Finished contour lines (grading plans) with elevation attribute (Z value)
Landbase	ELEV		Finished contour lines (grading plans) with elevation attribute (Z value)
Landbase	EP		Edge of pavement (I.e. lip of guttter or edge of pavment in the case of no curb and gutter construction)
Landbase	ESMT*	Line or Polygon	Easements not related to utilities, such as emergency vehicle access, pedestrian walkways, landscape maintence, etc.
Landbase	FOC	Line	Face of curbline
Landbase	LOT	Text	Text indicating lot number
Landbase	LP	Line	Lip of gutter
Landbase	MON MONL	Point	Survey monuments Monument line
Landbase Landbase	PARCEL		Closed polygons of each parcel or lot
Landbase	ROW		Public rights-of-way
Landbase	ROWPVT		Private rights-of-way
Landbase	SL	Point	Street light poles
Landbase	SLCNDT		Street lighting electrical conduit including pull boxes, service meters, etc.
Landbase	STRIPE	Line	Street striping and pavement markings
Landbase Landbase	STSIGN SW		Street/traffic signs Sidewalks including handicapped ramps, driveways, back of walk and meandering walks
Landbase	TOPO		All existing topological features (maybe submitted as a separate drawing file)
Landbase	TS	Point	Traffic signal fixtures/poles
Landbase	TSCNDT	Line	Traffic signal conduit including loop detectors, pull boxes, control cabintes etc.
Landscaping	LSIRR	Line	Public landscape irrigation (I.e. landscape maintenance districts) including service line from public main, water meters,
			valves, backflow and pressure regulating devices, control valves, etc.
Landscaping	LSTREES LSPLANT		Street tree plantings that will be maintained by jursidictional agency
Landscaping Landscaping	LID	Block insert Polygon	Bushes, shrubs, gorundcover and all other organic landscape material Landscape Improvement Dist.
Landscaping	LLD	Polygon	Landscape/Lighting Dist.
Landscaping	LSMOW		Concrete mow strips
Misc	* TXT		Layers containing text associated with various other layers where "?" denotes name of layer (e.g. sanitary sewer text would be named SSTEXT).
Misc	*TIC		would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1).
Misc Sewer	*TIC	Point Line	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains
Misc Sewer Sewer	*TIC SS SSLAT	Point Line Line	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains Sanitary Sewer service laterals
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Misc Sewer Sewer Sewer Sewer Sewer	*TIC SS SSLAT SSMH SSESMT SDCI SDESMT	Point Line Line Point Polygon Block insert Polygon	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains Sanitary Sewer service laterals Sanitary Sewer manholes Sanitary Sewer easements Storm drain curb inlets Storm drain easements
Sewer Sewer Sewer Sewer Sewer Stormdrain Stormdrain Stormdrain Stormdrain	*TIC SS SSLAT SSMH SSESMT SDCI SDESMT SDCMP SDDI	Point Line Line Point Polygon Block insert Polygon Line Block insert	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains Sanitary Sewer service laterals Sanitary Sewer manholes Sanitary Sewer easements Storm drain curb inlets Storm drain easements Storm drain corrigated metal pipe Storm drain drainage inlet
Sewer Sewer Sewer Sewer Sewer Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain	*TIC SS SSLAT SSMH SSESMT SDCI SDESMT SDCMP SDDI SDMH	Point Line Line Point Polygon Block insert Polygon Line Block insert Block insert	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains Sanitary Sewer service laterals Sanitary Sewer easements Storm drain curb inlets Storm drain easements Storm drain corrigated metal pipe Storm drain drainage inlet Storm drain manhole
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Sewer Sewer Sewer Sewer Sewer Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain	*TIC SS SSLAT SSMH SSESMT SDCI SDESMT SDCMP SDDI SDMH SD SDWH	Point Line Line Point Polygon Block insert Polygon Line Block insert Block insert Line Block insert	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains Sanitary Sewer service laterals Sanitary Sewer manholes Sanitary Sewer easements Storm drain curb inlets Storm drain corrigated metal pipe Storm drain drainage inlet Storm drain manhole Storm drain Storm drain vault
Misc Sewer Sewer Sewer Sewer Sewer Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain	*TIC SS SSLAT SSMH SSESMT SDCI SDESMT SDCMP SDDI SDMH SD SDWLT SDFILT	Point Line Line Point Polygon Block insert Polygon Line Block insert Block insert Line Block insert Point	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains Sanitary Sewer service laterals Sanitary Sewer manholes Sanitary Sewer easements Storm drain curb inlets Storm drain easements Storm drain corrigated metal pipe Storm drain drainage inlet Storm drain manhole Storm drain manhole Storm drain vault Storm drain filtering device
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Misc Sewer Sewer Sewer Sewer Sewer Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain	*TIC SS SSLAT SSMH SSESMT SDCI SDESMT SDCMP SDDI SDMH SD SDWLT SDFILT	Point Line Line Point Polygon Block insert Polygon Line Block insert Block insert Line Block insert Line Point Point Point Point Line	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains Sanitary Sewer service laterals Sanitary Sewer manholes Sanitary Sewer easements Storm drain curb inlets Storm drain corrigated metal pipe Storm drain drainage inlet Storm drain manhole Storm drain sult Storm drain sult Storm drain filtering device Storm drain manholes and/or junction boxes Electric utility line including power poles, underground conduit, pull boxes, vaults, maholes, ducts banks, etc. Easements where "?" denotes jurisdiction or purpose (PG&E, PUE, EVAE, etc.). Each utility shall have a separate
Misc Sewer Sewer Sewer Sewer Sewer Stormdrain Utility Utility	*TIC SS SSLAT SSMH SSESMT SDCI SDESMT SDCMP SDDI SDMH SD SDVLT SDFILT SDFILT SDMH ELEC ESMT*	Point Line Line Point Polygon Block insert Polygon Line Block insert Block insert Line Block insert Line Point Point Point Point Line Polygon	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains Sanitary Sewer service laterals Sanitary Sewer easements Storm drain curb inlets Storm drain corrigated metal pipe Storm drain drainage inlet Storm drain manhole Storm drain manhole Storm drain vault Storm drain filtering device Storm drain manholes and/or junction boxes Electric utility line including power poles, underground conduit, pull boxes, vaults, maholes, ducts banks, etc. Easements where "?" denotes jurisdiction or purpose (PG&E, PUE, EVAE, etc.). Each utility shall have a separate layer (i.e. ESMTPG&E, ESMTPUE, etc.)
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Misc Sewer Sewer Sewer Sewer Sewer Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Utility Utility	*TIC SS SSLAT SSMH SSESMT SDCI SDESMT SDCMP SDDI SDMH SD SDWLT SDFILT SDFILT SDMH ELEC ESMT* GAS	Point Line Line Point Polygon Block insert Polygon Line Block insert Block insert Line Block insert Line Point Point Point Line Polygon Line Line Line Line Line	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains Sanitary Sewer manholes Sanitary Sewer easements Storm drain curb inlets Storm drain corrigated metal pipe Storm drain drainage inlet Storm drain manhole Storm drain manhole Storm drain filtering device Storm drain manholes and/or junction boxes Electric utility line including power poles, underground conduit, pull boxes, vaults, maholes, ducts banks, etc. Easements where "?" denotes jurisdiction or purpose (PG&E, PUE, EVAE, etc.). Each utility shall have a separate layer (i.e. ESMTPG&E, ESMTPUE, etc.) Gas utility lines including service lines, valves, etc. All telecommunications utilities including (but not limited to) MCI, PacBell, Sprint, GTE, etc. showing location of underground lines, maholes, pullboxes, junction boxes, utility poles, duct banks, etc. Line type shall include name of
Misc Sewer Sewer Sewer Sewer Sewer Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Utility Utility Utility Utility Utility Utility	*TIC SS SSLAT SSMH SSESMT SDCI SDESMT SDCMP SDDI SDMH SD SDVLT SDFILT SDFILT SDMH ELEC ESMT* GAS TELECOM CATV UTILITY W	Point Line Line Point Polygon Block insert Polygon Line Block insert Block insert Line Block insert Line Point Point Point Line Polygon Line Line Line Line Line	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains Sanitary Sewer service laterals Sanitary Sewer manholes Sanitary Sewer easements Storm drain curb inlets Storm drain corrigated metal pipe Storm drain frain age inlet Storm drain manhole Storm drain manhole Storm drain filtering device Storm drain filtering device Storm drain manholes and/or junction boxes Electric utility line including power poles, underground conduit, pull boxes, vaults, maholes, ducts banks, etc. Easements where "?" denotes jurisdiction or purpose (PG&E, PUE, EVAE, etc.). Each utility shall have a separate layer (i.e. ESMTPQ&E, ESMTPUE, etc.) Gas utility lines including service lines, valves, etc. All telecommunications utilities including (but not limited to) MCI, PacBell, Sprint, GTE, etc. showing location of underground lines, maholes, pullboxes, junctioin boxes, utility poles, duct banks, etc. Line type shall include name of utility. Ticelevision, cable TV showing location of underground lines, maholes, pullboxes, duct banks, utility poles, etc. Conduit layout of all utilities not specifically designated in this schema. Each utility shall have a separate layer
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Misc Sewer Sewer Sewer Sewer Sewer Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Stormdrain Utility Utility Utility Utility Utility Utility Utility Utility Water Water Water	*TIC SS SSLAT SSMH SSESMT SDCI SDESMT SDCMP SDDI SDMH SD SDVLT SDFILT SDFILT SDMH ELEC ESMT* GAS TELECOM CATV UTILITY W WARV WBV	Point Line Line Point Polygon Block insert Polygon Line Block insert Line Block insert Line Block insert Line Point Point Line Polygon Line Line Line Line Line Line Point Point Point Line	would be named SSTEXT). Tics at all beginning and ending cruves for all utilities, easement boundaries, street centerlines (public and private), tract or parcel boundary, lot boundaries, ect. where "?" denotes name of feature or utility (e.g. CLTIC, SEE NOTE 1). Sanitary Sewer mains Sanitary Sewer service laterals Sanitary Sewer easements Storm drain curb inlets Storm drain curb inlets Storm drain corrigated metal pipe Storm drain drainage inlet Storm drain manhole Storm drain filtering device Storm drain filtering device Storm drain manholes and/or junction boxes Electric utility line including power poles, underground conduit, pull boxes, vaults, maholes, ducts banks, etc. Easements where "?" denotes jurisdiction or purpose (PG&E, PUE, EVAE, etc.). Each utility shall have a separate layer (i.e. ESMTPG&E, ESMTPUE, etc.) Gas utility lines including service lines, valves, etc. All telecommunications utilities including (but not limited to) MCI, PacBell, Sprint, GTE, etc. showing location of underground lines, maholes, pullboxes, junction boxes, utility poles, duct banks, etc. Line type shall include name of utility. Television, cable TV showing location of underground lines, maholes, pullboxes, duct banks, utility poles, etc. Conduit layout of all utilities not specifically designated in this schema. Each utility shall have a separate layer named for the utility and shall show all appurtenant facilities Water mains Air release valve
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NOTE: NAMES FOR LAYERS CONTAINING EXISTING FEATURES SHALL BE PREFIXED WITH "EX". FOR EXAMPLE, THE LAYER CONTAINING EXISTING SEWER MAINS SHALL BE NAMED EX-SS.

NOTE: NAMES FOR LAYERS CONTAINING EASEMENTS SHALL BE PREFIXED WITH "ESMT". FOR EXAMPLE, THE LAYER CONTAINING EMERGENCY VEHCILE ACCESS EASMENTS SHALL BE NAMED ESMT-EVAE.

NOTE: NAMES FOR LAYERS CONTAINING TEMPORARY IMPROVEMENTS OR STRUCTURES SHALL BE PREFIXED WITH "TEMP-" AS DICTATED BY THE TYPE OF IMPROVEMENT OR STRUCTURE. FOR EXAMPLE A LAYER FOR FUTURE CURB WOULD BE LABELED "TEMP-FOC".

NOTES:

- 1. Centerline intersection tics not required on sanitary sewer mains.
- Names for layers containing existing freatures shall be prefixed with "EX". For example, the layer containing existing sewer mains shall be named EXSS.
- 3. Names for layers containing existing fleatures shall be prefixed with "EX." For example, the layer containing existing sewer mains shall be refixed with "ESMT". For example, the layer containing Emergency Vehicle Access Easements shall be named "ESMTEVAC".
- 4. Name for layers containing temporary improvements or structures shall be prefixed with "TEMP" according to the type of improvement or structure. For example, the layer containing futrue curb would be named "TEMPFOC".

Any repeatable feature such as sewer manholes, storm drain manholes, streetlight poles, tress, bushes, etc. may be designated with an appropriate symbol or AutoCAD block.